

Deleting, Copying, Moving, and Renaming Files

What You Will Learn

- Deleting files
- Copying files
- Moving files
- Renaming files
- Compressing files
- Creating archives

Removing Files

`rm file` Remove file.

`rm -r dir` Remove the directory and its contents recursively.

`rm -f file` Force removal and never prompt for confirmation.

Removing Files

```
$ ls s*
sales-lecture.mp3 sales.data secret secret.bak
$ rm s*
$ ls -d .*
. .. .profile .bash_history
$ rm .*
rm: cannot remove `.`: Is a directory
rm: cannot remove `..': Is a directory
$ ls -d .*
. ..
$
```

Copying Files

```
cp source_file destination_file
```

Copy source_file to destination_file.

```
cp src_file1 [src_fileN ...] dest_dir
```

Copy source_files to destination_directory.

cp Options

`cp -i`

Run in interactive mode.

`cp -r source_directory destination`

Copy `src_directory` recursively to destination.

Demo

Moving and Renaming Files

`mv` Move or rename files and directories.

`mv source destination`

`mv -i source destination`

Demo

Sorting Data

`sort file`

Sort text in file.

sort Options

- k F Sort by key. F is the field number.
- r Sort in reverse order.
- u Sort unique.

Demo - sort

Creating a Collection of Files

```
tar [-] c|x|t f tarfile [pattern]
```

Create, extract or list contents of a tar archive using pattern, if supplied.

tar Options

c	Create a tar archive.
x	Extract files from the archive.
t	Display the table of contents (list).
v	Be verbose.
z	Use compression.
f file	Use this file.

Demo - tar

Compressing Files To Save Space

`gzip` Compress files.

`gunzip` Uncompress files.

`gzcat` Concatenates compressed files.

`zcat` Concatenates compressed files.

Disk Usage

`du` Estimates file usage.

`du -k` Display sizes in Kilobytes.

`du -h` Display sizes in human readable format.

Demo - gzip + tar.

Summary

- rm
- cp
- mv
- gzip
- tar